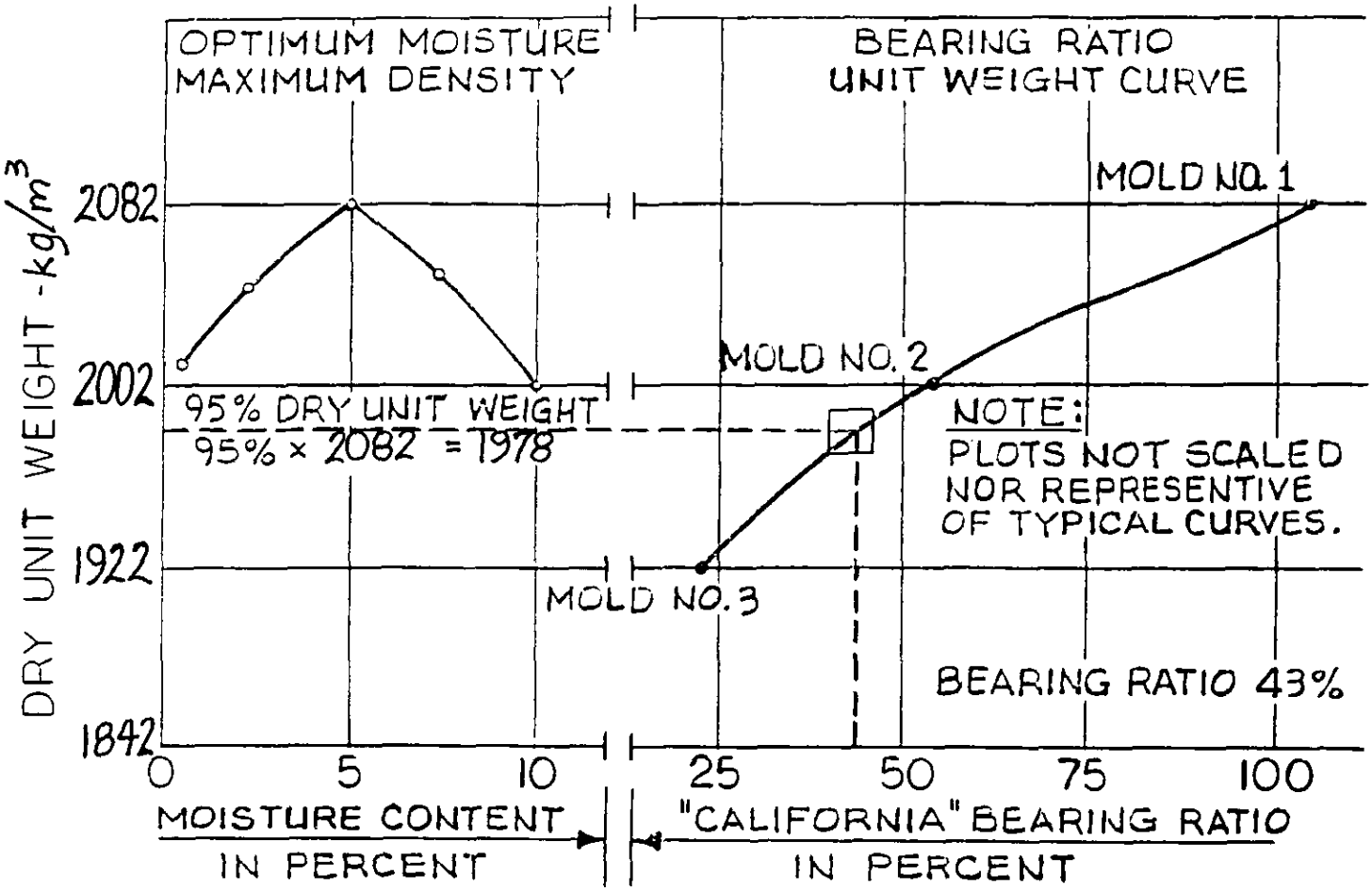
FIGURE 1



PROCEDURE FOR BEARING RATIO AT 95% MAXIMUM DRY DENSITY

1. The samples are prepared in accordance with ASTM D 1557, Method D. Compact a minimum of 4 specimens. The bearing ration value of low plasticity, nonswelling, granular soils at 95 percent maximum density is determined in accordance with ASTM D 1883 and as follows:

a. Determine the ratio by compacting three specimens at moisture contents within 0.5 percent of the optimum. Compact one specimen with 56 blows per layer, the second with 26 blows per layer and the third with 12 blows per layer. Five layers 25 mm thick in each mold with the top of the material extending at least 25 mm into the extension collar. Before soaking, take representative samples (100 to 500 grams each) at the beginning and completion of compacting specimen. Soak each specimen for 4 days under a 4.5 kg surcharge weight. Record swell measurements. Perform penetration tests with surcharge weight. At completion of tests determine average moisture content of entire depth of specimen.

b. Bearing ratio at 95 percent maximum dry density: Plot the relationship of the dry unit weight and the corrected bearing ratio percent at 2.5 mm penetration for each of the three specimens. Draw a horizontal line at a unit weight of 95 percent of maximum dry unit weight. The intersection at the bearing ratio-unit weight curve determines the bearing ratio at 95 percent of maximum density at 2.5 mm penetration.